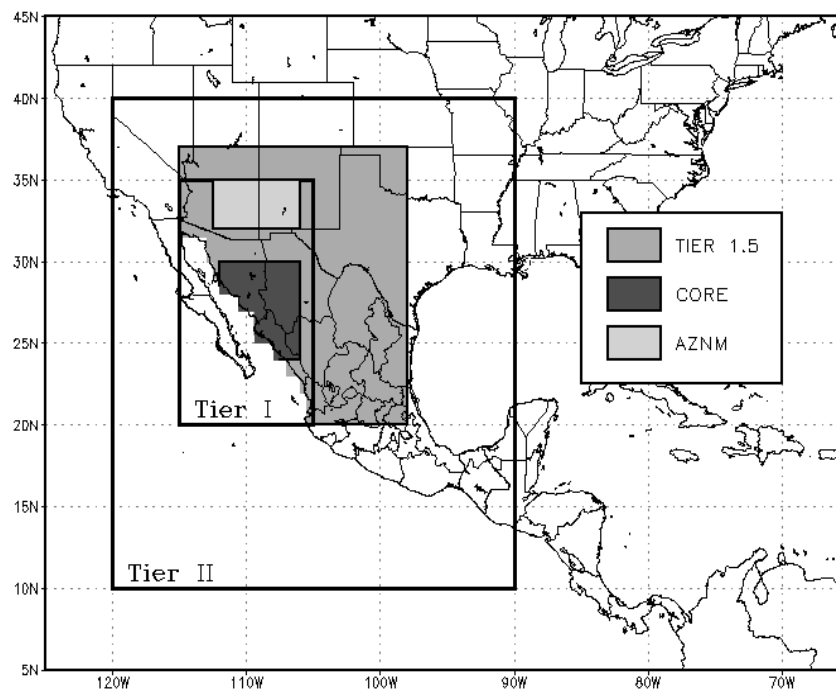


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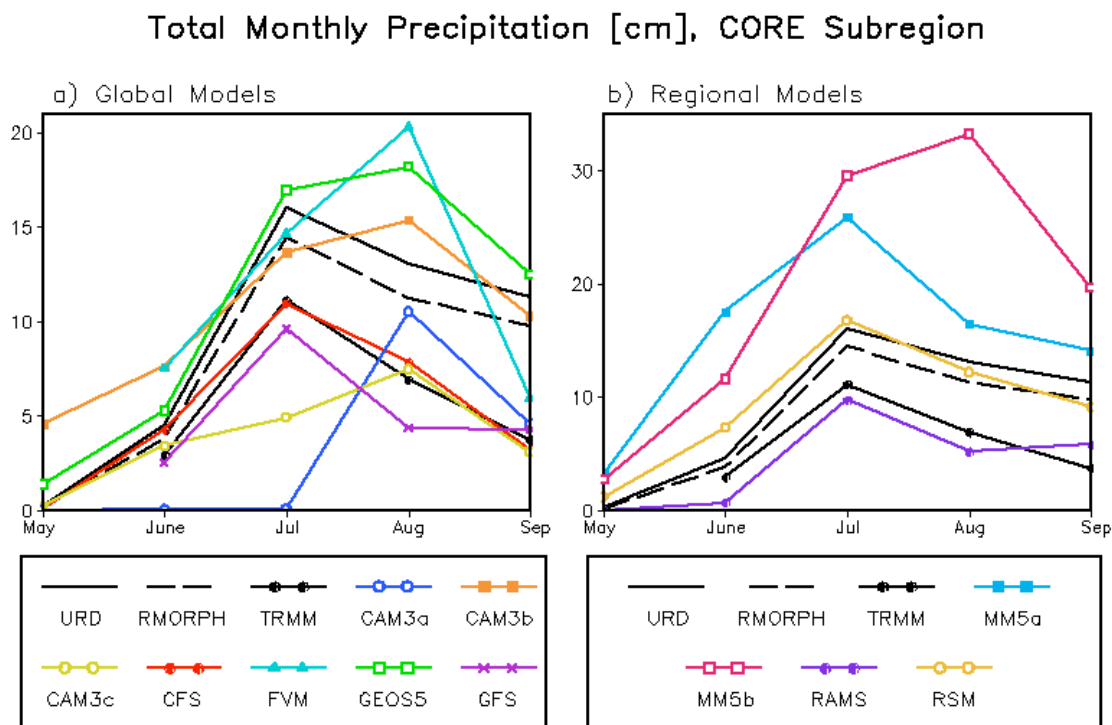
**Project Investigators:** J. Schemm, D. Gutzler, W. Higgins, B. Mapes, K. Mo, S. Moorthi, S. Schubert, G. White

**1. Year 3 Report for the NAME CPT Activities at Univ. New Mexico**  
**NAMAP2,**

**Figures:**

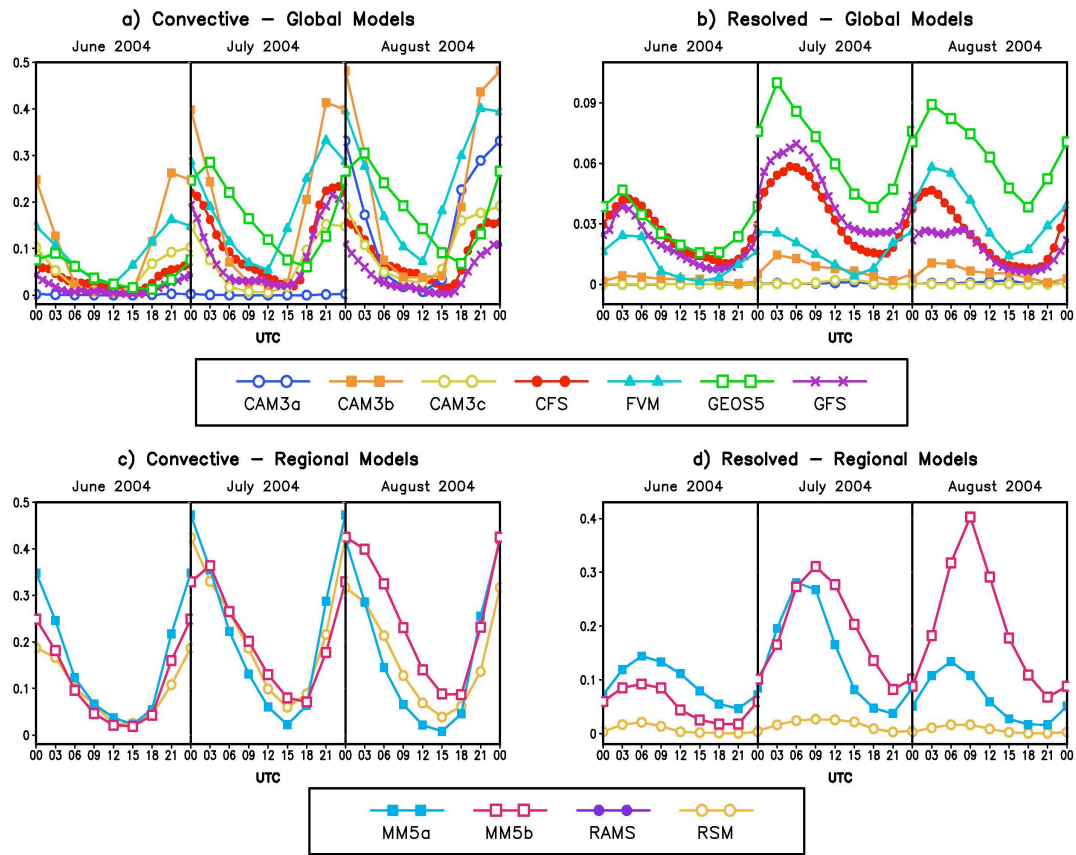


**Figure 1.** Analysis domains used for defining spatial averages. Tiers I and II are defined in the NAME Science Plan; CORE and AZNM were used in the first round of NAMAP (Gutzler et al. 2005) and are used in NAMAP2 as well; Tier 1.5 is newly defined for NAMAP2.



**Figure 2.** Time series of total monthly precipitation [cm] averaged over the CORE subregion, May-Sept 2004, simulated by a) global models and b) regional models. Three estimates based on observations are shown as black lines in each plot.

### Diurnal Cycle of Precipitation over CORE Subregion [mm/hr]



**Figure 3.** Diurnal cycle of convective precipitation (left column, plots a and c) and resolved precipitation (right column, plots b and d), simulated by global models (a and b) and regional models (c and d) in the CORE subregion. The diurnal cycle was calculated as the monthly averaged hourly rain rate in three-hour increments, for the months of June, July and August 2004. Time is shown as UTC and precipitation is expressed as mm/hr. Note the much-expanded ordinate scale in plot b).